



## 11th Meeting of the Board of Studies - B.Tech (Aeronautical Engineering)

### Agenda

**Date:** 01<sup>st</sup> August 2025

**Time:** 2:30 PM to 4:30 PM

**Venue:** Aeronautical Department Meeting Room  
ADCET, Ashta  
(Internal Members)

**Google Meet Link:**  
<https://meet.google.com/jsa-ntmw-idc?hs=122&authuser=0> (External Members)

Item No	Item Details
1	Welcome Address by the Chairperson, BoS
2	To Note Actions Taken and Confirmation of Minutes of Meeting of 10th Meeting of BoS
3	Approval of the third revision of the curriculum structure for B.Tech Aeronautical Engineering, covering semesters one through eight.
4	Review and finalization of the detailed syllabus for the first and second semesters as part of the third curriculum revision.
5	Finalization of MOOC courses for Honours and Specialized Minor tracks for second and third-year students under the second curriculum revision.
6	Any other item with the permission of chair

Member Secretary-BoS

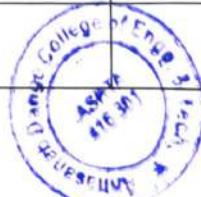


Chairman-BoS



**Members of Board of Studies**

Sl.No	Name of the Member and Designation	Position
1	Dr. K. M. Kiran Babu, Head of the Department, Department of Aeronautical Engineering, ADCET, Ashta	Chairperson
2	Dr. R K Satapathy, Professor, Department of Aerospace Engineering, Defence Institute of Advanced Technology, (DIAT), Pune	Vice Chancellor Nominee
3	Dr. Vijayakumar M Scientist - E, Aero Data Generation & Design Modification Aeronautical Development Establishment (ADE), Bangalore Defence Research and Development Organisation (DRDO)	Industry Representative
4	Dr. Shashidhar S, Principle Engineer, Collins Aerospace, Bengaluru	Industry Representative
5	Dr S. Nadaraja Pillai, Professor of Aerospace Engineering, Shanmugha Arts, Science, Technology & Research Academy (SAASTRA), Thanjavur	Academic Expert
6	Dr. Tejinder Kumar Jindal, Professor, Aerospace Engineering, Punjab Engineering College (Deemed to be University), Chandigarh	Academic Expert
7	Dr. Rajkumar S. Pant Professor, Department of Aerospace Engineering Indian Institute of Technology Bombay, Mumbai	Special Invitee Academic Expert in LTA Systems and Aircraft Design
8	Dr. Nikhil Shende Director, S & I Engineering Solutions Pvt. Ltd.	Special Invitee Industry Expert in CFD & FEA
9	Shri. Thaariq Ahmad COO - NextLeap Aeronautics, eVTOL, Unmanned Aerial Systems	Special Invitee Industry Expert in UAV Systems
10	Dr. Sudhagara Rajan Associate Professor, School of Mechanical Engineering, REVA University, Bengaluru	Special Invitee Academic Expert in Composite Materials
11	Shri. Prasanna Venkatesh Senior Lead Engineer, Collins Aerospace, Bengaluru	Special Invitee Industry Expert in Propulsion
12	Mr. Ganesh Malgunde, Collins Aerospace, Bengaluru	Alumni Representative
13	Mr. Reju R, Assistant Professor, Department of Aeronautical Engineering, ADCET, Ashta	Member Secretary
14	Dr. S. Sendhil Kumar Professor, Department of Aeronautical Engineering, ADCET, Ashta	Member





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Sl.No	Name of the Member and Designation	Position
15	Dr. S. Yuvaraj Associate Professor, Department of Aeronautical Engineering, ADCET, Ashta	Member
16	Dr. Sudharson Murugan Associate Professor, Department of Aeronautical Engineering, ADCET, Ashta	Member
17	Dr. Sakthipriya Balu Associate Professor, Department of Aeronautical Engineering, ADCET, Ashta	Member
18	Dr. Kalpit P. Kaurase Associate Professor, Department of Aeronautical Engineering, ADCET, Ashta	Member
19	Mr. Yogesh B. Kumbhar, Assistant Professor, Department of Aeronautical Engineering, ADCET, Ashta	Member
20	Mr. Sanoj P. Suresh, Assistant Professor, Department of Aeronautical Engineering, ADCET, Ashta	Member
21	Mr. L. Oblisamy, Assistant Professor, Department of Aeronautical Engineering, ADCET, Ashta	Member
22	Mr. Sabarishwaran R. Assistant Professor, Department of Aeronautical Engineering, ADCET, Ashta	Member
23	Mr. A. Basithrahman, Assistant Professor, Department of Aeronautical Engineering, ADCET, Ashta	Member
24	Dr. P. Kaleeswaran, Assistant Professor, Department of Aeronautical Engineering, ADCET, Ashta	Member
25	Mr. Karthik Pullela Assistant Professor, Department of Aeronautical Engineering, ADCET, Ashta	Member





**11<sup>th</sup> Meeting of the Board of Studies - B.Tech. (Aeronautical Engineering)**

**Minutes of 11<sup>th</sup> Board of Studies Meeting**

Ref No: ADCET/AERO/BoS-M/AY2025-26/11

**Members Present:**

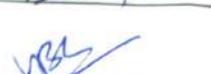
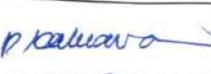
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1	Dr. K. M. Kiran Babu Head of the Department, Department of Aeronautical Engineering, ADCET, Ashta	Chairperson	
2	Dr. R.K. Satapathy Professor, Department of Aerospace Engineering, Defence Institute of Advanced Technology (DIAT), Pune	Vice Chancellor Nominee	(Online Mode)
3	Dr. Vijayakumar M. Scientist - E, Aero Data Generation & Design Modification, Aeronautical Development Establishment (ADE), Bangalore. Defence Research and Development Organisation (DRDO)	Industry Representative	(Online Mode)
4	Dr S. Nadaraja Pillai Professor of Aerospace Engineering, Shanmuga Arts, Science, Technology & Research Academy (SASTRA), Thanjavur	Academic Expert	(Online Mode)
5	Dr. Rajkumar S. Pant Professor, Department of Aerospace Engineering Indian Institute of Technology Bombay, Mumbai	Special Invitee Academic Expert in LTA Systems and Aircraft Design	(Online Mode)
6	Dr. Sudhagara Rajan Associate Professor, School of Mechanical Engineering, REVA University, Bengaluru	Special Invitee Academic Expert in Composite Materials	(Online Mode)
7	Dr. Nikhil Shende Director, S & I Engineering Solutions Pvt. Ltd.	Special Invitee Industry Expert in CFD & FEA	(Online Mode)
8	Mr. Reju R. Assistant Professor	Member Secretary	
9	Dr. S. Sendhil Kumar Professor	Member	
10	Dr. S. Yuvaraj Associate Professor	Member	





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Sl.No	Name of the Member and Designation	Position	Signature
11	Dr. Sudharson Murugan Associate Professor	Member	
12	Dr. Sakthipriya Balu Associate Professor	Member	
13	Dr. Kalpit P. Kaurase Associate Professor	Member	
14	Mr. Yogesh B. Kumbhar Assistant Professor	Member	
15	Mr. Sanoj P. Suresh. Assistant Professor	Member	
16	Mr. L. Oblisamy Assistant Professor	Member	
17	Mr. Sabarishwaran R. Assistant Professor	Member	
18	Mr. A. Basithrahman Assistant Professor	Member	
19	Dr. P. Kaleeswaran Assistant Professor	Member	
20	Mr. Karthik Pullela Assistant Professor	Member	





**ITEM No: 11-BOS-1.1**

**Welcome Address by the Chairperson, BoS**

**For the Information  
 of the Academic  
 Council**

The Chairperson of the Board of Studies (BoS) extended a sincere and warm welcome to all esteemed members, both internal and external, as the **11th Board of Studies meeting for B.Tech (Aeronautical Engineering)** commenced. This meeting, held on **01<sup>st</sup> August 2025**, marked another crucial step in the continuous evolution and enhancement of the program.

The active participation and thoughtful contributions from all members were highly anticipated for each of these agenda items. This welcome address formally opened the proceedings and was noted for the **information of the Academic Council**. Productive discussions ensued, undoubtedly shaping the future trajectory of the Aeronautical Engineering program.

**ITEM No: 10-BOS-1.2**

**Confirmation of Minutes of the 10th Meeting of BoS and  
 To Note Actions Taken**

**For the Information  
 of the Academic  
 Council**

The **Minutes of the 10th Board of Studies meeting**, which took place on **January 10, 2025**, from 10:00 AM to 1:30 PM, were presented to the committee for confirmation. This meeting was conducted in a hybrid mode, with internal members present in the Collaborative Teaching Learning Class Room and external members joining via Google Meet. The 10th Board of Studies meeting saw several crucial discussions and recommendations that led to modifications and enhancements across various courses:

- The proposal for introducing a minor stream in Space Technology was discussed and subsequently approved.
- The assessment methods for the Third Year - VI Semester Courses were discussed and finalized.
- Dr. R. K. Satapathy recommended exploring the possibility of including military aircraft performance in the 2AEPC301 - Aircraft Performance course curriculum and his valuable input is incorporated in the In-Semester activities.
- The department's commitment to the vision of positioning India as a "Vishwa Guru in AI" was discussed and is implemented in the 3rd revision curriculum(Course: 3AEES115 - Introduction to Emerging Technologies).

A detailed briefing was provided to the members regarding the **actions taken based on the suggestions** put forth during the 10th BoS meeting. Following the presentation and discussion, the members of the BoS **unanimously confirmed the Minutes of the 10th Board of Studies meeting**.





**ITEM No: 11-BOS-1.3**

**Approval of the third revision of the curriculum structure for B.Tech Aeronautical Engineering, covering semesters one through eight.**

The third revision of the curriculum structure for B.Tech Aeronautical Engineering, covering semesters one through eight, was presented to the members. The following points were raised and discussed during the review of each semester:

**Subject:** "Introduction to Aerospace Engineering"

Dr. S. Nadaraja Pillai raised concerns regarding the current course allocation of 1 hour lecture + 1 hour practical per week.

He questioned whether:

One hour of lecture per week would be sufficient for a core subject.

One hour of practicals per week could lead to effective student learning.

Dr. S. Sudhagara Rajan suggested considering an increase in course weightage to 3 credits to allow for additional teaching time.

Dr. Rajkumar S. Pant recommended supplementing the course with additional learning materials and suggested referring students to relevant NPTEL courses for extended coverage.

**Subject:** "Research Methodology"

A question was raised as to why "Research Methodology" is placed in the 4th semester and how it can be adequately covered in a single semester.

**Subject:** "Aircraft Performance and Stability"

- Dr. S. Sudhagara Rajan questioned the combination of "Aircraft Performance" and "Aircraft Stability and Control" into a single subject. He suggested they should be two separate subjects, as combining them would make it difficult for students to prepare for competitive exams like GATE.

**Subject:** "Fundamental Aircraft Structures" and "Advanced Aircraft Structures"

- Dr. S. Sudhagara Rajan questioned why these two subjects do not have equal weightage and why neither includes a dedicated tutorial hour.
- Dr. S. Sudhagara Rajan mentioned that students might face a heavy workload for in-semester activity submissions. He suggested reconsidering the courses to ensure they are not overly challenging for students, in VI semester.
  - A general query was raised by most review members regarding the possibility of transferring credits from one semester to another.

**Subject:** Project Work and Internship

- Dr. S. Nadaraja Pillai questioned the allocation of only 4 credits for the project work while the internship is assigned 13 credits. Dr. S. Sudhagara Rajan and Dr. Rajkumar S. Pant supported Dr. Pillai's concern.





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Dr. Rajkumar S. Pant further added that while the university has control over the project work, the internship can be done at various locations, making it difficult to maintain oversight. He urged the members to seriously consider whether the internship should be given more weight than the project work.

**Subject: "Environmental Fluid Dynamics"**

Dr. Rajkumar S. Pant asked for clarification on the meaning and scope of the subject "Environmental Fluid Dynamics."

**Subject: Professional Elective Tracks**

Several members provided comments on the Professional Elective Tracks, with a particular focus on the Unmanned Aerial Vehicle (UAV) track. The discussion revolved around the content, structure, and potential enhancements for these specialized courses to ensure they are current and relevant to industry standards.

Semester VII

**Dr. S. Nadaraja Pillai** raised a specific question regarding the evaluation process for internships. He asked for clarification on how internships would be assessed, what criteria would be used, and what measures would be in place to ensure a fair and standardized evaluation across different internship locations and organizations.

Decision:

The suggestions were noted for further review by the curriculum committee. Inclusion of NPTEL material will be in structure.

**ITEM No: 11-BOS-1.4**

**Review and finalization of the detailed syllabus for the first and second semesters as part of the third curriculum revision.**

**For the Approval of the Academic Council**

The detailed syllabus for the first and second semesters of the B.Tech Aeronautical Engineering program, as part of the third curriculum revision, was presented to the members. The syllabus was thoroughly reviewed, and no questions or concerns were raised by any of the attendees. The syllabus for both semesters was unanimously approved.

**ITEM No: 11-BOS-1.5**

**Finalization of MOOC courses for Honours and Specialized Minor tracks for second and third-year students under the second curriculum revision.**

**For the Approval of the Academic Council**

The list of Massive Open Online Courses (MOOCs) for the Honours and Specialized Minor tracks for second and third-year students, as part of the second curriculum revision, was presented to the members. During the discussion on the Honours courses, a list of course choices was presented, some with a credit weightage of 2 credits and others with 3 credits. Dr. Rajkumar S. Pant raised a concern that the courses did not have equal credit weightage, which could lead to inconsistencies in the students' academic load and final grades. This concern was noted for further review and resolution.

The meeting concluded with a vote of thanks to the Chair and all the members for their valuable contributions.

Member Secretary-BoS



Chairman-BoS



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## Action Items of the Eleventh Board of Studies Meeting

**Date:** 01<sup>st</sup> August 2025

**Time:** 2:30 PM to 4:30 PM

### Action Taken

Based on the discussions and concerns raised during the meeting, the following actions have been initiated or are planned:

#### **1. Third Revision of the Curriculum Structure (Semesters III - VII):**

- **"Introduction to Aerospace Engineering" (Semester III):** The Curriculum Committee reviewed the credit and hour allocation for this course. Options to increase lecture and practical hours and introduce a tutorial hour have been explored. The possibility of integrating supplementary and NPTEL courses, as suggested, has been investigated. A proposal to increase the course's weightage to 3 credits could not be considered due to current policy on contact hours.
- **"Grid Generation in HyperMesh" (Semester IV):** The curriculum was reviewed, and the existing structure, which ensures that foundational theoretical background from the mathematics in third semester subjects like numerical analysis are taught before this practical-focused (tool training) course, was appreciated by a panel member. The current allocation of one practical hour was re-evaluated and deemed appropriate, and the practice of identifying NPTEL courses to provide a theoretical foundation was commended. No further changes were deemed necessary for this course at this time.
- **"Research Methodology" (Semester IV):** The placement of this course in the 4th semester was deemed appropriate for students pursuing an honors or specialized degree, as it would be beneficial for those required to write a thesis in their final semester.
- **"Aircraft Performance and Stability" (Semester V):** The proposal to separate this course into "Aircraft Performance" and "Aircraft Stability and Control" was reviewed and acknowledged. The potential impact on student preparation for competitive exams like GATE remains a primary consideration for future revisions.
- **"Fundamental Aircraft Structures" and "Advanced Aircraft Structures" (Semester V):** The credit weightage and lack of tutorial hours for these subjects were reviewed. The subjects were combined into a single course with a structure of 2 Lectures, 1 Tutorial, and 2 Practicals (2L+1T+2P) for a total of 4 credits to ensure a balanced and effective learning experience.
- **Semester VI Workload:** The course content and in-semester activity submissions for this semester were reviewed to manage the student workload. Courses perceived as overly challenging for this stage were reconsidered and re-sequenced.
- **Credit Transfer (Semester VII):** The feasibility and policy for transferring credits between semesters were investigated. It was concluded that credit transfer will not be formally implemented due to existing institute policy norms.
- **Project vs. Internship Credits (Semester VII):** The credit allocation of 4 credits for Project Work and 13 credits for Internship was evaluated and maintained. The rationale is that the institute verifies the company to ensure a valid internship experience for the students, and this reflects the relative academic rigor and effort required. A standardized evaluation and assessment framework is being developed to address the oversight of internships at





various locations. This thoroughness was appreciated for its ability to ensure a valid and valuable learning experience for students. The process will continue as is, with no changes required.

- **"Environmental Fluid Dynamics" (Semester VII):** The syllabus and scope of this course have been defined in detail, and the name has been modified to "Experimental Fluid Dynamics" to better reflect its content.
- **Professional Elective Tracks (UAV):** Feedback on the UAV elective track has been incorporated to update the content and structure, ensuring it aligns with current industry trends.

#### **2. Detailed Syllabus (Semesters I and II):**

- The detailed syllabus for the first and second semesters was approved and has been implemented as presented. No further action is required for this item.

#### **3. MOOC Courses for Honours and Minor Tracks:**

- **Honours and Minor Courses:** The list of MOOC courses for Honours and Specialized Minor tracks was revised to ensure that all courses have a standardized credit weightage. The committee worked to either find alternative courses or adjust the credit allocation to address the inconsistency noted by Dr. Rajkumar S. Pant.

